## MATRIX FOR THE 8-HOUR STRUCTURAL III EXAMINATION

## **SEISMIC ISSUES**

- FORCE DISTRIBUTION
  - Irregularities
  - Deformation Compatibilities
  - Basic Dynamics
- SITE EFFECTS
  - Soil Structure Interaction
  - Foundation Design
- STRUCTURAL COMPONENT DESIGN
  - Primary LFRS Members
  - Diaphragms, Chords and Collectors
- DETAILING AND DUCTILITY
  - Members
  - Connections
- NON-STRUCTURAL COMPONENTS
  - Forces on Elements
  - Anchorage

## OTHER ISSUES (Loads, Design, Detailing)

- Wind
- Snow Drifting
- Load Combinations
- Verify Computer Output

## STRUCTURAL DESIGN STANDARDS

UBC, Uniform Building Code, 1997 edition. International Conference of Building Officials, Whittier, CA, with appropriate National standards for various materials, i.e. AISC,  $9^{th}$  edition for ASD or  $2^{nd}$  edition for LRFD.

AASHTO, Standard Specifications for Highway Bridges, Sixteenth Edition, 1996, plus interims for 1997 and 1998, American Association of State Highway and Transportation Officials, Washington, D.C.

WSDOT Bridge Design Manual (latest version), Washington Department of Transportation, Olympia, WA.